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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1 53(b))

espona to	a confection of informa-	tion unless it displays a valid Olym control number					
Attorney Docket No. First Inventor		1875.0370000					
		Tonglong Zhang					
Title	Die-up Ball Grid Array Package With A Heat Spreader and Method for Making the Same						
Express	Mail Lahel No						

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents	Assistant Commissioner for Patents Box Patent Application Washington, DC 20231								
 Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 	 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) 								
3. Specification [Total Pages 27] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention	b. Specification Sequence Listing on: i								
- Brief Description of the Drawings (if filed) - Detailed Description	9. Assignment Papers (cover sheet & document(s))								
- Claim(s) - Abstract of the Disclosure Abstract of the Disclosure Drawing(s) (35 U.S.C. 113) [Total Sheets 8] Oath or Declaration [Total Pages 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)								
Oath or Declaration [Total Pages 2]	11. English Translation Document (if applicable)								
a. Newly executed (original or copy)	12 Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations								
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	13. Preliminary Amendment								
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76.	14. Two Return Receipt Postcards (MPEP 503) (Should be specifically itemized)								
named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).	15. Certified Copy of Priority Document(s) (If foreign priority is claimed)								
6 Application Data Sheet. See 37 CFR 1.76.	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.								
	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)								
	Other: The name of the assignee is: Broadcom Corporation								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76 Continuation Divisional Continuation-in-Part (CIP) of prior application No:/									
19. CORTERSP	TO ENCE ADDRESS								
☐ Customer Number or Bar Code Label 2611	1 Or Correspondence address below								
(Insert Customer No. or At	Customer No. 26111 (Insert Customer No. or Attach bar code label here)								
NAME STERNE, KESSLER, GOLDSTEIN & FOX P.L.L C Attorneys at Law									
ADDRESS ADDRESS									
CITY STATE	ZIP CODE								
COUNTRY TELEPHONE	FAX								
NAME (Print/Type) Jeffrey S. Weaver	Registration No. (Attorney/Agent) 45,608								
SIGNATURE July & Wear	Date 5-7-01								

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

ATTORNEYS AT LAW

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*LIMITED TO MATTERS AND PROCEEDINGS BEFORE FEDERAL COURTS & AGENCIES **REGISTERED PATENT AGENT ***SENIOR COUNSEL

May 7, 2001

WRITER'S DIRECT NUMBER: (202) 218-7831 INTERNET ADDRESS: JWEAVER@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Re:

Box Patent Application

ington, D.C. 20231

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To be assigned; Filed: May 7, 2001

For: Die-Up Ball Grid Array Package With A Heat Spreader and Method

for Making the Same

Inventors:

Zhang et al.

Our Ref:

1875.0370000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17) (in duplicate);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Die-Up Ball Grid Array Package With A Heat Spreader and Method for Making the Same

Commissioner for Patents May 7, 2001 Page 2

and naming as inventors:

Tonglong Zhang Reza-ur Rahman Khan

the application consisting of:

- a. A specification containing:
 - i. <u>20</u> pages of description prior to the claims;
 - ii. <u>6</u> pages of claims (<u>37</u> claims);
 - iii. a one (1) page abstract;
- b. <u>8</u> sheet(s) of drawings (Figures 1-14); and
- c. An original executed Declaration;
- 4. Application data sheet;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 6. Recordation Form Cover Sheet;
- 7. An original executed Assignment to <u>Broadcom Corporation</u>, recordation of which is hereby respectfully requested;
- 8. Two (2) return postcards; and
- 9. Our check No. 31217 for \$ 1,056.00 to cover:
 - $$\frac{710.00}{}$ Filing fee for patent application;
 - \$ 40.00 Assignment recordation fee; and
 - \$ 306.00 Fee for excess claims..

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents May 7, 2001 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey S. Weaver

Attorney for Applicants

Joffry A Wear

Registration No. 45,608

JSW/asl Enclosures

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 1,056.00

Complete if Known					
Application Number	To be assigned				
Filing Date	May 7, 2001				
First Named Inventor	Tonglong Zhang				
Examiner Name	To be assigned				
Group Art Unit	To be assigned				
Attorney Docket No.	1875.0370000				

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)					
The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:				TIONAL Entity		Entity	,		
Deposit Account Number	19-0036		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee paid	
Deposit Account Name	Sterne, Kes	ssler, Goldstein & Fox P L.L C	105	130	205	65	Surcharge - late filing fee or oath		
			127	50	227	25	Surcharge - late provisional filing fee or cover sheet		
☐ Charge Any Additional Fee Required Under 37 CFR §§ 1 16 and 1.17			139	130	139	130	Non-English specification		
☐ Applicant claims small entity status See 37 CFR 1.27			147	2,520	147	2,520	For filing a request for ex parte reexamination		
	112	920*	112	920*	Requesting publication of SIR prior to Examiner action				
2. 🛛 Payment End	closed:		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		
Check Credit card Money Order Other* Charge any deficiencies or credit any overpayments in the fees or fee Calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036				110	215	55	Extension for reply within first month		
	FEE CA	LCULATION	116	390	216	195	Extension for reply within second month		
1. BASIC FILING	FEE		117	890	217	445	Extension for reply within third month		
Large Entity Sma		ee Description Fee Paid	118	1,390	218	695	Extension for reply within fourth month		
Code (\$) Cod		ee Description Fee Faid	128	1,890	228	945	Extension for reply within fifth month		
101 710 201	355 L	Itility filing fee 710.00	119	310	219	155	Notice of Appeal		
106 320 206	160 D	esign filing fee	120	310	220	155	Filing a brief in support of an appeal		
107 490 207	245 P	Plant filing fee	121	270	221	135	Request for oral hearing		
108 710 208		leissue filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding		
114 150 214	75 P	rovisional filing fee	140	110	240	55	Petition to revive - unavoidable		
				1,240	241	620	Petition to revive - unintentional		
SUBTOTAL	SUBTOTAL (1) (\$) 710 00				242	620	Utility issue fee (or reissue)		
			143	440	243	220	Design issue fee		
			144	600	244	300	Plant issue fee		
			122	130	122	130	Petitions to the Commissioner		
2. EXTRA CLAIM		Fee from xtra below Fee Paid	123	130	123	130	Petitions related to provisional applications		
Total Claims <u>37</u>	- 20** =	17 X 18 = \$306.00	126	180	126	180	Submission of Information Disclosure Stmt		
Indep. Claims 2 - 3** = 0 X 0 = 0				40	481	40	Recording each patent assignment per property (times number of properties)	40.00	
Multiple Dependent	t	<u>0</u> = <u>0</u>	. 146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))		
Large Entity Smal Fee Fee Fee Code (\$) Code	Fee	Fee Description	149	710	249	355	For each additional invention to be examined (37 CFR 1 129(b))		
103 18 203		aims in excess of 20	179	710	279	355	Request for Continued Examination (RCE)		
102 80 202	40 Inc	dependent claims in excess of 3	169	900	169	900	Request for expedited examination of a design		
104 270 204		ultiple dependent claim	Other for /	cnooif.\			application		
108 80 209	pa	Reissue independent claims over original itent Reissue claims in excess of 20 and over	Other fee (specity)					
110 18 210	Other fee (Other fee (specify)							
** or number previously	*Reduced	Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00				**************************************			
SUBMITTED BY							Complete (if applicabl	e)	
Name (Print/Type) Jeffrey S. Weaver				Reg (Affici	Registration No.		45,608 Telephone 202-	371-2600	
Signature		Jolly S. Wear					Date 5-	7-01	
		WARNING: Information on	/T * 0		4 50 00				